

# Comparisons of Job Characteristics

**Focus Occupation:** [Electricians \(47-2111\)](#)

**Associated Occupation:** [Electrical Power-Line Installers and Repairers \(49-9051\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 73

**Focus Occupation:** Electricians (47-2111)

**Associated Occupation:** Electrical Power-Line Installers and Repairers (49-9051)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Customer and Personal Service	11.3	16.9	11.7	<< Extensive education and/or training may be required
Mechanical	6.8	14.0	16.5	> Current knowledge level is likely sufficient
Building and Construction	4.0	12.6	14.6	> Current knowledge level is likely sufficient
Public Safety and Security	6.9	10.9	7.6	<< Extensive education and/or training may be required
Transportation	4.6	9.2	4.9	<< Extensive education and/or training may be required
Design	5.2	8.0	13.4	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 76

**Focus Occupation:** Electricians (47-2111)

**Associated Occupation:** Electrical Power-Line Installers and Repairers (49-9051)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Troubleshooting	4.5	10.5	12.3	> Skill level is likely sufficient
Quality Control Analysis	5.9	10.1	11.0	0 Current skill level may be sufficient
Operation Monitoring	6.6	9.8	10.5	0 Current skill level may be sufficient
Operation and Control	5.4	9.6	8.8	0 Current skill level may be sufficient
Repairing	3.4	9.6	11.6	> Skill level is likely sufficient
Equipment Maintenance	3.5	7.9	10.3	>> Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 85			
Focus Occupation: Electricians (47-2111)					
Associated Occupation: Electrical Power-Line Installers and Repairers (49-9051)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Multilimb Coordination	6.0	12.2	11.4	0	Current ability level may be sufficient
Arm-Hand Steadiness	6.8	11.1	11.0	0	Current ability level may be sufficient
Manual Dexterity	6.5	10.8	11.6	0	Current ability level may be sufficient
Static Strength	5.0	10.3	9.3	<	Some improvement in abilities may be required
Reaction Time	4.8	9.7	9.3	0	Current ability level may be sufficient
Extent Flexibility	4.8	9.5	10.4	0	Current ability level may be sufficient
Gross Body Equilibrium	3.2	8.4	8.2	0	Current ability level may be sufficient
Gross Body Coordination	3.9	7.9	7.3	0	Current ability level may be sufficient
Rate Control	3.8	7.9	5.4	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	5.5	5.9	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 89
Focus Occupation: Electricians (47-2111) Associated Occupation: Electrical Power-Line Installers and Repairers (49-9051)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Climb ladders, scaffolding, or utility or telephone poles	56	
Distinguish colors	44	
Drive automobile, van, or light truck	53	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electrical conduit or tubing	81	
Install/connect electrical equipment to power circuit	57	
Install/string electrical or electronic cable or wiring	76	
Move or fit heavy objects	8	
Perform safety inspections in construction or resource extraction setting	46	
Read blueprints	10	
Read tape measure	41	
Read technical drawings	7	

Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Solder electrical or electronic connections or components	55
Splice electric cable	85
Splice electric or communications trunk lines	92
Test electrical/electronic wiring, equipment, systems or fixtures	54
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use high voltage apparatus	76
Use measuring devices in construction or extraction work	41
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 86

**Focus Occupation: Electricians (47-2111)**

**Associated Occupation: Electrical Power-Line Installers and Repairers (49-9051)**

Tools and Technologies	Exclusivity
Aerial lifts	13
Business function specific software	1
Compressors	9
Computer printers	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Earth moving machinery	11
Electrical cable and accessories	47
Electrical hardware and supplies	47
Electrical measuring and testing equipment	7
Face and head protection	7
Forming tools	2
Holding and clamping tools	3
Hydraulic presses	25
Indicating and recording instruments	2
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Machine tools	7
Marking tools	11
Measuring and layout tools	3
Mechanical instruments	14

Personal communication devices	2
Power generators	16
Power tools	2
Prying and bending tools	10
Pulling tools	31
Respiratory protection	6
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Surveillance and detection equipment	11
Temperature and heat measuring instruments	6
Tool attachments and accessories	12
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.